

SMIRNOV, M.V.

Brigades of communist labor of the Kazan Railroad. Avtom., telem.
i sviaz' 4 no.10:22-23 0 '60. (MIRA 13:10)

1. Nachal'nik sluzhby signalizatsii i avyazi Kazanskoy dorogi.
(Railroads--Signalizing)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651530002-8

KUZNETSOV, S.T., kand.tekhn.nauk; SMIRNOV, M.V., kand.tekhn.nauk

Results of tests of the M-87 support in Kuznetsk Basin mines and a study
of its principal features on models. [Trudy] VNIMI no.45:263-281 '62.
(MIRA 16:4)

(Mine timbering--Testing)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651530002-8"

SMIRNOV, M.V.

"Safety measures in repair and assembly work in the machinery industry" by M.I.Korsakov. Reviewed by M.V.Smirnov. Mashinostroitel' (MIRA 16:5) no.4:47 Ap '63.
(Machinery industry—Safety regulations) (Korsakov, M.I.)

KOZLOV, Svyatoslav Nikolayevich; SMIRNOV, Mikhail Vasil'yevich;
BAZ', Ivan Stepanovich; SIDOROV, Petr Aleksandrovich;
BEZDENEZHNYKH, P.T., red.; SRIENIS, N.V., tekhn.red.

[Soviet military science] O sovetskoi voennoi nauke. 2.,
perer. i dop. izd. Moskva, Voenizdat, 1964. 403 p.
(MIRA 17:3)

L 55932-65 EWT(1)/EWG(v)/T-2 Pe-5
ACCESSION NR: AP5016684

UR/0084/65/000/007/0028/0028

AUTHOR: Grishanov, N. (Engineer); Kalashnik, V. (Engineer); Smirnov, N. (Engineer)

17
B

TITLE: Climate in an aircraft

SOURCE: Grazhdanskaya aviatsiya, no. 7, 1965, 28

TOPIC TAGS: passenger aircraft, aircraft air conditioner, aircraft cabin equipment

ABSTRACT: A greatly improved air conditioning system has been developed for channelling air directly into the passenger compartments of the AN-10 passenger aircraft, bypassing the panel ducts. The panel system is switched on only after a given temperature is attained. In this system, hot compressed air from the compressors of all four engines passes through stopcocks, pressure limiters, return valves, and into the common wing duct. The air then moves to the cooling units consisting of a radiator and two simultaneously operating turbocooling units located in the left fairing of the undercarriage. From these units, the air passes along five ducts into the cockpit, to the panel ducts of the three passenger compartments, and to an air-distribution duct located in the upper portion of the compartments. Temperature in the compartments is maintained by mixing hot air into the basic cooled-air

Card 1/2

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CIA-RDP86-00513R001651530002-8

SMIRNOV, N.; SAVCHENKO, A., inzh.; OVECHKIN, Yu., inzh.

Special features in the use of transistors. Radio no. 2:53~56 F
(MIRA 18:4)
'65.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651530002-8"

• IC NR: AP6016736

maintenance of gliders and engines are discussed and periods of flights between repairs are indicated. New, revised regulations are also used for maintenance of Ya-12, Li-2, An-2 and Il-14 aircraft. The aircraft "Morava" is also covered by these regulations.

SUB CODE: 01/ SUBM DATE: None

Card 2/2 // 5

SMIRNOV, N.A., inzh.

Effect of high hydrostatic pressure on the transformation of martensite to austenite in iron-nickel alloys. Izv.vys.ucheb. zav.; chern.met. 2 no.10:109-112 O '59. (MIRA 13:3)

1. Zaporozhskiy mashinostroitel'nyy institut. Rekomendovano kafedroy metallovedeniya Zaporozhskogo mashinostroitel'nogo instituta.

(Iron-nickel alloys--Metallography)
(Pressure)

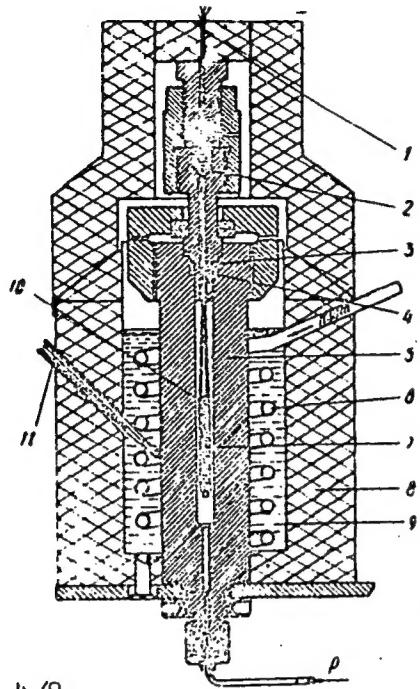
The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy

771⁴³

SOV/148-59-9-13/22

by heating to 1,000° C in a hydrogen flow with holding for 18 hr, double-wound on a serpentine spool. After winding the spool was heated at vacuum to 1,000° C and held for 25 min to remove the effects of plastic deformation and the remaining hydrogen, after which the wire was ready for testing. For determining the temperature at which austenite transformation begins, the measuring of the electric resistance was chosen, since the transformation of austenite to martensite consists of a rearrangement of face-centered austenite lattice to body-centered martensite lattice, which is accompanied by a noticeable decrease in electric resistance. Changes in electric resistance were measured with an accuracy of 0.05 ohm and a pressure of +15 kg/cm² per 1,000 kg/cm² of pressure. Temperature was measured by iron-constantan thermocouple. The high-pressure chamber used in the investigation is shown in Fig. 1. The pressure was created either by multiplier or by high-pressure hydraulic compressor designed by L. F. Vereshchagin. In view of the fact

Card 2/8



77143 SOV/148-59-9-13/22

Fig. 1. High-pressure chamber for investigation of phase transformations at low temperatures: (1) electric leads; (2) ebonite cone; (3, 4) steel and babbitt sealing rings; (5) body; (6) cooling coil; (7) spool; (8) thermal insulation; (9) gasoline; (10) thermocouple; (11) thermometer.

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The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy

771⁴³
SOV/148-59-9-13/22

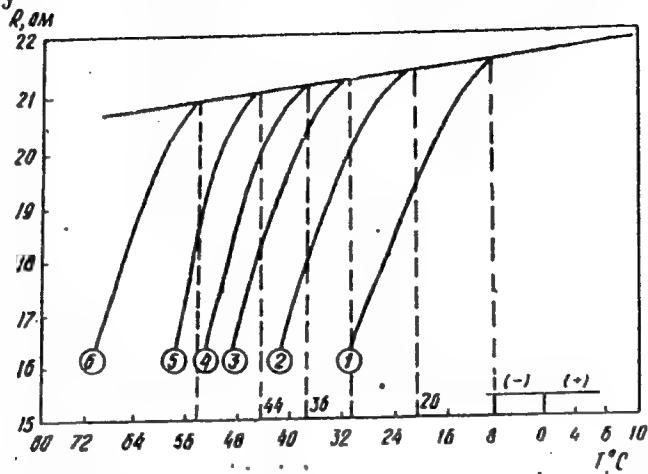


Fig. 3. Shifting of temperatures at which transformation of austenite to martensite begins.

Card 6/8

The Effect of High Hydrostatic Pressure on the Transformation of Austenite to Martensite in Iron-Nickel Alloy 77143
SOV/148-59-9-13/22

G. Kulin, Journal of Metals, June, 1952.

ASSOCIATION: Zaporozh'ye Machine Building Institute (Zaporozhskiy mashinostroitel'nyy institut)

SUBMITTED: April 27, 1959

Card 8/8

Smirnov, N.A.

USSR/General Problems. Methodology, History, Scientific Institutions and A
Conferences, Instruction, Questions Concerning Bibliography and
Scientific Documentation.

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3460.

Author : N.A. Smirnov, A.S. Yablonskiy, V.A. Fefilov, Z.N. Pukhovitskaya,
Ya. M. Koldobskiy.

Inst :
Title : Development of Leningrad Bread Baking Industry.

Orig Pub: in symposium: Pishchevaya prom-st', L., Sel'khozgiz, 1957,
23-41.

Abstract: No abstract.

Card : 1/1

-11-

Smirnov, N.A.

USSR /Chemical Technology. Chemical Products
and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

Author : Ivanov N. Ye., Kheruntseva Kh. A., Smirnov N.A.

Title : Boiling of Toweling Fabric with Hydrogen
Peroxida

Orig Pub: Tekstil'naya prom-st', 1956, No 4, 50-51

Abstract: Bleaching of cotton fabrics with H_2O_2 has con-
siderable advantages over the alkaline-hypocho-
lorite method of bleaching. In this procedure
the processes of desizing, boiling and bleaching
are carried out in one bath. Compositions and

Card 1/3

USSR /Chemical Technology. Chemical Products
and Their Application

I-19

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32181

served on using the alkaline-hypochlorite method of bleaching. It was ascertained that direct and basic dyestuffs are not decomposed under conditions of peroxide bleaching while the acid dyes are completely discharged. Therefore it is recommended to use only acid dyes for marking coarse linen.

Card 3/3

CHEREMUSHKIN, S.D., kand. sel'khoz. nauk; KLOPOTOVSKIY, A.P., kand. sel'khoz. nauk; MARKOVA, M.V., kand. sel'khoz. nauk; SMIRNOV, N.A., red.

[Basic principles of the economic valuation of land]Osnovnye printsyipy ekonomiceskoi otsenki zemli; materialy nauchno-issledovatel'skikh rabot. Moskva, Vses. nauchno-issl. in-t ekon. sel'.khoz. 1962. 79 p. (MIRA 16:1)

1. Rukovoditel' otdela ekonomiceskoy otsenki zemel'nykh ugodiy Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Cheremushkin). 2. Otdel ekonomiceskoy otsenki zemel'nykh ugodiy Vsesoyuznogo nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for Klopotovskiy, Markova). (Moscow Province--Farms--Valuation) (Moscow Province--Soils--Classification)

PENTYUK, M.V., kand. sel'khoz. nauk; UDOVENKO, Ye.Ya., otv. red.;
KNYAZEV, N.K., red.; TASHCHEV, Ye.N., red.; SVYADOSTS, Yu.I.,
red.; SMIRNOV, N.A., red.

[Problems in increasing the number of sheep and the production
of mutton] Voprosy uvelicheniya pogolov'ia ovets i proizvodstva
baraniny. Moskva, Vses. nauchno-issl. in-t ekonomiki sel'.
khoz., 1962. 93 p. (MIRA 15:11)

(Sheep)

ZOTOV, A.; YAKUBOV, B.; SMIRNOV, N.; CHABROV, G.; KOCHEROV, V.,
red.; BAKHTIYAROV, A., tekhn. red.

[Cities of the Fergana Valley; concise reference book]
Goroda Ferganskoi doliny; kratkii spravochnik, Perer.
2 izd. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1963. 157 p.
(MIRA 16:11)

(Fergana--Cities and towns)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV,
V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S. [deceased];
MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye:
AMMOSOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk,
dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A.,
prof., red.; DNEPROVA, N.N., red.izd-va; PUL'KINA, Ye.A.,
tekhn. red.

[Technology of building] Tekhnologija stroitel'nogo proiz-
vodstva. [By] N.A. Smirnov i dr. Leningrad, Gosstroizdat,
(MIRA 17:2)
1963. 435 p.

SMIRNOV, N.A., irzh

New developments in the graph analysis method of determining the size of displacements in aligning curves.
Transp. stroi. 12 no.1:39-40 Ja '62. (MIRA 17:2)

SMIRNOV, N.A. (Leningrad); SMOLOV, V.B. (Leningrad)

Concerning a method for the construction of voltage-to-code
integral-differential code converters. Avtom. i telem. 25
no.2:250-261 F '64. (MIRA 17:4)

ACC NR: AT6029240

SOURCE CODE: UR/0000/66/000/000/0270/0279.

AUTHOR: Gul'ko, F. B.; Smirnov, N. A.

ORG: none

TITLE: Use of prediction methods for controlling nuclear reactor start-up

SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematicheskogo modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Computer technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka, 1966, 270-279

TOPIC TAGS: nuclear reactor operation, nuclear reactor, nuclear reactor accident, computer simulation, control simulator

ABSTRACT: The essence of prediction methods is that the manipulated variable (or control input) is not formed on the basis of actual values of the phase coordinates of the controlled object but on the basis of their predicted values. The predicted values are calculated by a prediction device which is a high-speed electron simulator of the controlled plant with an iterative solution operating in conjunction with a transponder. The investigation covered the start-up processes of a reactor for physical and technological research and of a thermal reactor, as well as the equipment for electronic simulation. For both reactors the problem was reduced to that of producing the desired neutron rate levels or the desired temperature. Where these levels are about to be ex-

Card 1/2

SMIRNOV, N.A., iyzh.

Experimental investigation of the variable speed gear of the chassis
of the Sk-3 self-propelled combine. Trudy MIMESKH 10:133-148 '59.
(MIRA 13:12)

(Combines (Agricultural machinery))
(Gearing)

SMIRNOV, N.A., inzh.

Investigation the optimum traction force of doubled V-belt type
infinitely variable transmissions. Trudy MIMESKH 10:149-164 '59.
(MIRA 13:12)

(Gearing) (Belts and belting)

SMIRNOV, N.A., inzh.

Theory and calculation of the V-belt type variable speed gear. Trudy
MIMESKH 10:165-183 '59.
(Gearing) (Belts and belting)

(MIRA 13:12)

SMIRNOV, N. A., CAND TECH SCI,
ALTERNATOR self-excited
V-BELT XXXXXXX OF ~~RESEARCH~~ COMBINES." Moscow, 1960.

MOSCOW ORDER OF LENIN AOR ACADEM K. A. TIMIRYAZEV). (KL,
2-61, 212).

Study

-180-

BALANDIN, Andrey Andreyevich; SIRNOV, N.A., prof., red.;
PANIVAN, P.S., red. izd-va; BELOGUROVA, I.A., tekhn.
red.

[Fundamentals of fire safety at a construction site] Os-
novy pozharnoi bezopasnosti na stroitel'no-montazhnoi
ploshchadke. Leningrad, 1962. 28 p. (Leningrad. dom
nauchno-tekhn. propagandy. Bibliotekha stroitelia po
tekhnike bezopasnosti, no.15) (MIRA 16:12)
(Construction industry—Fires and fire prevention)

VINOGRADOV, Yevgeniy Grigor'yevich, kand. tekhn. nauk; SMIRNOV, N.A., prof., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Safety measures in mechanical processing of wood] Tekhnika bezopasnosti pri mekhanicheskoi obrabotke drevesiny. Pod obshchey red. N.A. Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1962. 37 p. (Bibliotekha stroitelia po tekhnike bezopasnosti, no.4) (MIRA 16:3)
(Woodworking machinery--Safety appliances)

66201

SOV/146-58-6-1/16

~~8(3)~~ 16.9500

AUTHORS:

Smolov, V.B., Candidate of Technical Sciences, Smirnov,
N.A., Assistant, and Nazarov, I.A., Candidate of Technical Sciences

TITLE: Application of Rotating Transformers (VT) as Functional Transformers of Approximate Action

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1958, Nr 6, pp 3-13 (USSR)

ABSTRACT: The rotating transformers (VT) are typical induction components of electromechanical modulating plants, and serve for the realization of equations of the type:

$$U_{21} = K_{T_1} U_{11} \cos \phi - K_{T_2} U_{12} \sin \phi$$

$$U_{22} = K_{T_2} U_{11} \sin \phi + K_{T_4} U_{12} \cos \phi, \text{ where } K_{T_1}, K_{T_2}, K_{T_3},$$

K_{T_4} are transformation coefficients. In accordance

with the above formulae, the VT can be used for the following operations: a) Turning of axes of a rect-

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SOV/146-58-6-1/16

Application of Rotating Transformers (VT) as Functional Transformers
of Approximate Action

angular coordinates system at an angle α ; b) computing the tension values U_{11} and U_{12} at $\alpha = 45^\circ = \text{const.}$; c) scanning of vector $R(U_{11})$ into its components U_{21} and U_{22} in a rectangular coordinates system; d) building of vector $R(U_{22})$ in a rectangular coordinates system; e) multiplying the value U_{11} by a constant multiplier. The number of operations which can be performed with the aid of VT will be considerably increased if special connection layouts will be used. The layout FP (Figure 2) realizes the trigonometric polynom

$$z(x) = \sum_{k=0}^n A_k x^k (0 \leq x \leq x_{\max})$$

In using electronic numerical computation devices with different control layouts, it is often an advantage to have functional transformers which transform the incoming continuous values into discrete ones. These transformers, unlike linear transformers, realize the

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SOV/146-58-6-1/16

Application of Rotating Transformers (VT) as Functional Transformers
of Approximate Action

transformation as $N = f(\varphi)$

$$N = f(U_{Bx})$$

The analyzed layout of VT in a capacity of FP of approximate action permits enlarging of the field in which the standard induction elements of computation designs of continuous or discrete action are used. There are 1 table, 4 graphs, 8 schematic diagrams and 2 Soviet references.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Leningrad Electrotechnical Institute imeni V.I. Ul'yanov (Lenin))

SUBMITTED: September 6, 1958

4

Card 3/3

SMIRNOV, N.A.

91-58-7-16/27

AUTHOR:

Smirnov, N.A., Technician

TITLE:

Exchange of Experience (Obmen opytom). Fault Localization
in Power Transmission Cables by Means of a Compass (Opre-
deleniye povrezhdeniy v silovykh kablyakh pri pomoshchi
kompasa).

PERIODICAL:

Energetik, 1958, Nr 7, pp 31-32 (USSR).

ABSTRACT:

The author of this article suggests utilizing the compass for fault localization, if special equipment is not available. He describes the localization of breakdowns between the phases of a 250 m long cable consisting of 3 pieces with sections of 150 and 120 sq mm. Two cores of this cable were welded together by the breakdown. At one cable side a 12 v automobile storage battery and a knife switch, in series with a 0.2 ohm limiter resistance, were inserted into the circuit loop formed by the breakdown. Short pulses were transmitted by means of the knife switch at intervals of 2 to 3 seconds. Having established that the compass put on the cable shielding, responded to the impulses, a first hole of 400 x 400 was bored in the ground at the center of the cable run. The compass put on the cable shielding in

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91-58-7-16/27

Exchange of Experience. Fault Localization in Power Transmission Cables by Means of a Compass.

this hole did not deviate. This proved that the fault was located nearer to the substation and, by dividing each part of the cable successively into halves, by means of holes bored in the earth, the fault was rapidly located. The editor of this periodical states that this primitive method was applied because of lack of appropriate equipment. The nature of the fault described by the author would have permitted the application of the induction method, which would have located the fault with a 100 % accuracy without boring any holes. The editor recommends observing the special instructions for cable line service laid down by the Ministerstvo elektrostantsiy(Ministry of Electric Power Plants), Gosenergoizdat, 1954. There is 1 Soviet reference.

1. Transmission lines--Maintenance 2. Electric cables--Test methods 3. Compasses--Applications

Card 2/2

SP1RNUKA

SOV/144-58-9-18/18

AUTHOR: Gikis, A. F., Candidate of Technical Sciences, Docent
TITLE: Inter-University Scientific Conference on Electric
Measuring Instruments and Technical Means of Automation
(Mezhdvuzovskaya nauchnaya konferentsiya po
elektroizmeritel'nym priborom i tekhnicheskim sredstvam
avtomatiki)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Elektromekhanika,
1958, Nr 9, pp 130-135 (USSR)

ABSTRACT: The conference was held at the Leningradskiy
elektrotekhnicheskiy institut imeni V. I. Ul'yanova
(Lenina) (Leningrad Electro-technical Institute imeni
V. I. Ul'yanov (Lenin)) on November 11-15, 1958. The
representatives of eleven higher teaching establishments
and three research institutes participated and a large
number of specialists of various industrial undertakings
were present.

Corresponding Member of the Ac.Sc. USSR Professor
E. B. Karandeyev presented the paper "Application of
semi-conductors for metering purposes".
Assistant G. N. Novopashennyj presented the paper
"Metering amplifiers with semi-conductor triodes".
Docent Ya. V. Novosel'tsev, Assistants N. A. Smirnov,
Ye. Ye. Afanasyev and Ye. P. Ugryumov (Leningrad
Electrotechnical Institute) presented the paper
"Semi-conductor precision instrument for measuring
the frequency by the method of counting impulses".
The described instrument enables measuring the
frequency of harmonic oscillations which occur once
only; the frequency of the input oscillations is
amplified 24 times and the error in measurement does
not exceed 2×10^{-5} .
A number of papers were presented on measuring and
producing instruments based on recently discovered
physical phenomena.

26180
S/044/61/000/006/019/019
C111/C222

K.6800

AUTHORS: Nazarov, I.A., and Smirnov, N.A.

TITLE: On the calculation of trigonometric functions with electronic digital devices

PERIODICAL: Referativnyy zhurnal. Matematika, no.6, 1961, 43,
abstract 6V 268. (Izv. Leningr. elektrotehn. in-ta, 1959,
39, 148-152)

TEXT: The author describes an input device with the aid of which in a special-purpose computer an arbitrary argument can be reduced to a value being smaller than $\pi/2$ or $\pi/4$. Then the argument is led to an arithmetic mechanism for calculating the Sine according to the well-known program.

[Abstracter's note: Complete translation.]

X

Card 1/1

VOSEL'TSEV, Ya.V. [deceased]; AFANAS'YEV, Ye.Ye.; SMIRNOV, N.A.;
UGRYUMOV Ye.P.

Transistor instrument for high-precision measurements of frequencies.
Izv.vys.ucheb.zav.; prib. 3 no.2 30443 '60. (MIRA 14:4)

1. Leningradskiy elektrotekhnicheskiy institut imeni V.I.Ulyanova
(Lenina). Rekomendovana kafedroy schetno-reshayushchey tekhniki.
(Frequency measurements)

9,7200

32968
S/146/61/004/006/007/020
D201/D30

AUTHORS: Smirnov, N. A., Smolov, V. B. and Ugryumov, Ye. P.

TITLE: Time-pulse transistorized multiplier-divider

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Prirodostro-
yeniye, v. 4, no. 6, 1961, 47-56

TEXT: The authors describe compact transistorized time-pulse instruments performing operations of the type of

$$V_{out} = K_1 \frac{V_1 V_2}{V_o} \quad (1)$$

where K_1 is a constant with values of inputs V_1 , V_2 and V_o , given by d.c. voltages with max. relative errors of 1%; the instruments have time constants of the order of 20/sec, and are meant to ope-

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S/146/3
D201/D301

Time-pulse transistorized ...

rate at constant ambient temperatures ($\approx +10^\circ\text{C}$ with respect to the set zero temperature). The instruments were designed at the Department of the Analogue Computer Techniques of the LETI im. V. I. Ul'yanov (Lenin) on the closed-loop system principle. A block diagram of the computer is given in Fig. 1. It consists of three main units (shown by dotted lines). Unit 1 - a pulse width modulator; 2 - pulse amplitude divider; 3 - a voltage difference amplifier. Operation of the circuit is briefly discussed below. Errors are determined by the carrier frequency in the described arrangement was $2 - 5 \text{ kc/s}$. Higher frequencies are used as owing to increased pulse distortion. Emitter followers are used as buffer stages throughout. Requirements as to the integrating networks are stated to be non-critical which makes it possible to use passive RC-networks for this purpose. The d.c. amplifier is a three-stage balanced one with a cathode follower output, overall gain 1000, with series-connected complementary transistor stages. The requirements as to the characteristics of transistors for a multiplier-divider arrangement may be summarized as follows: a) High operating voltages; b) large I_e ; c) high f_T ; d) small I_{CBO} .

4

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CIA-RDP86-00513R001651530002-8

Card 3/4

card 2/A

32968

S/146/61/004/006/007/020

D201/D301

Time-pulse transistorized ...

SUBMITTED: November 9, 1960

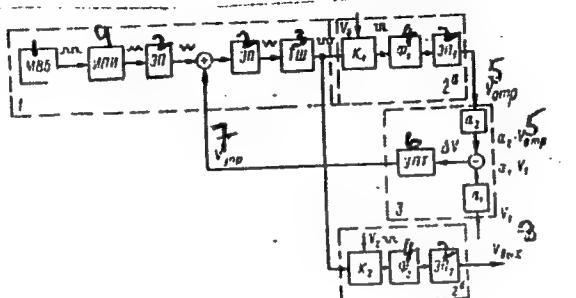


Fig. 1

Legend: 1 - multivibrator; 2 - emitter follower; 3 - Schmitt trigger; 4 - filter; 5 - V_{-ve} ; 6 - d.c. amplifier; 7 - $V_{control}$; 8 - V_{out} ; 9 - right-angle impulse integrator

Card 4/4

TOPOLYANSKIY, Abram Borisovich, inzh.; SMIRNOV, N.A., prof., red.;
PAPIYEV, V.R., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Safe use of electricity in construction and assembly work]
Elektrobezopasnost' pri proizvodstve stroitel'no-montazhnykh
rabot. Pod obshchei red. N.A.Smirnova. Leningrad, Leningr.
dom nauchno-tekhn. propagandy, 1962. 48 p. (Biblioteka
stroitelei po tekhnike bezopasnosti, no.3) (MIRA 16:5)
(Electricity in building—Safety measures)

S/115/62/000/005/003/006
E140/E435

AUTHCRS: Smirnov, N.A., Smolov, V.B., Fomichev, V.S.,
Chernyavskiy, Ye.A.

TITLE: Transistorized digital-analogue converter

PERIODICAL: Izmeritel'naya tekhnika, no.5, 1962, 29-32

TEXT: A digital-analogue converter developed at the LETI im. V.I.Ul'yanova (Lenina) in 1960-1961 is described. The system operates at frequencies not exceeding 50 kc/s, in the temperature range $\pm 60^{\circ}\text{C}$, with a precision of 0.01%. The full-scale voltage into loads of 10 to 250 k.. is of the order of 0.020 V. The relatively high precision is obtained by the use of saturated transistor switches in a balanced configuration (Fig.6) and a divided resistance summation network (Fig.5). The power supplies are stabilized to 0.05%; wire-wound resistors of the same tolerance are used. There are 7 figures and 1 table.

Card 1/2

9.7400

38835
S/103/62/023/006/010/012
D230/D308

AUTHORS: Smirnov, N.A., Smolov, V.B. and Fomichev, V.S. (Leningrad)

TITLE: Bridge electronic digital-to-analog functional converter

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 6, 1962,
802-817

TEXT: The authors deal with bridge digital-to-analog computers suitable for functional processing of digital data in accordance with the relations $N_z = F(N_x)$ and $N_z = \Phi(N_x, N_y)$, where N_x , N_y - input 'informing' digital data; N_z - output 'controlling' digital data. Both the theoretical and practical work were performed in the Kafedra vychislitel'noy tekhniki LETI im. V.I. Ul'yanova (Lenina) (Department of Computer Engineering LETI im. V.I. Ulyanov (Lenin)). In the case of transition from the digital output data to continuous data, rheostats or potential controlling sources should be connected into the corresponding arm of the bridge digital-to-analog computers.

Card 1/2

On thermal conductivity of the system of solid solutions PbTe-PbS.
Ye. D. Devyat'kova, V. V. Tikhonov, N. A. Smirnov.

Change of the electrical properties of PbSe, PbTe, and PbS under
close pressure. A. D. Averkin, A. A. Andreyev, I. G. Dombrovskaya,
B. Ya. Moyzhes, E. G. Nensberg.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

L 11599-63EWT(p)/FCC(w)/BDS Pg-4/Pk-4/Po-4/
Pg-4 GG/IJP(C)

ACCESSION NR: AP3001370

S/0144/63/000/005/0597/0604

76

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.; Chernyavskiy, Ye. A.

TITLE: "Number-angle" decoder with intermediate conversion

16C

SOURCE: IVUZ. Elektromekhanika, no. 5, 1963, 597-604

TOPIC TAGS: digital decoder, binary decoder

ABSTRACT: A simplified circuit is proposed for the decoding of binary-coded shaft rotation data, for the case where the angular resolution can be relatively low (8-11 bits). The design uses an intermediate conversion whereby the digital input is in effect converted to conductance and the variation in conductance controls the a-c voltage to the output motor. The basic operation is as follows: A double-ended a-c reference voltage with grounded center tap is connected across a parallel bank of transistor pairs. Each pair has a common emitter and collectors connected to opposite ends of the a-c bus. Each pair also represents one digital order. In a given pair one or the other transistor is switched on depending on whether the total input digital command has a "positive" or

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ACCESSION NR: AP3001370

"negative" sense of angular rotation; thus the a-c current which is switched on has a forward or reverse phase sense. The sum of switched currents flows through a precision summing resistor, developing the control voltage for the output motor. The "positive" or "negative" condition is determined by the state of the highest order digit in the input code. Feedback is provided by a 20-turn potentiometer driven from the output shaft. An experimental model was built using standard parts for which a schematic is given including component values for the output a-c amplifier preceding the motor. Test results show that conversion error with a 10-digit code is about 0.1%, maintainable within a range of -50 to +60C. Reliability and the absence of reactive elements are cited as further advantages of the design. Orig. art. has: 3 tables, 5 figures, and 6 formulas.

ASSOCIATION: none

SUBMITTED: 19Jul62

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: CP, CO

NO REF Sov: 002

OTHER: 000

ch/ak
Card 2/2

SMIRNOV, N.A.; SMOLOV, V.B.

A good manual on digital computers. Priborostroenie no.9:
32 S '63. (MIRA 16:9)

1. Leningradskiy elekrotekhnicheskiy institut.
(Electronic digital computers)

L 17912-63
Pq-4 GG

EWT(d)/FCC(w)/BDS ASP/ESD-3/APGC/IJP(C) Pg-4/Pk-4/Po-4

ACCESSION NR: AP3005678

S/0146/63/006/004/0054/0062

75
76

AUTHOR: Smirnov, N. A.; Smolov, V. B.; Fomichev, V. S.
Chernyavskiy, Ye. A.

60

TITLE: Universal voltage-to-digital converter for d-c and a-c control systems

SOURCE: IVUZ. Priborostroyeniye, v. 6, no. 4, 1963, 54-62

TOPIC TAGS: code converter, volts-to-digits converter, control system, analog-to-digital converter, encoder

ABSTRACT: Results are reported of developing a universal voltage-binary-code converter intended for conveying input information to a digital computer from d-c and a-c sensors; the latter may have any frequency and phase. The compensation principle is used for the encoding method, the input voltage being balanced against a feedback voltage which is obtained from decoding a selected code in the register. The direction of every balancing step is determined by repeated tests

Card 1/2

L 17912-63

ACCESSION NR: AP3005678

at the half-cycle of the input voltage. A circuit diagram is presented and discussed of an encoder capable of encoding d-c voltages, slow-varying voltages, and 400-cps amplitude voltages. It is intended for a special-purpose digital computer. Orig. art. has: 5 figures and 6 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina
(Leningrad Electrotechnical Institute)

SUBMITTED: 07Jan63

DATE ACQ: 06Sep63

ENCL: 00

SUB CODE: CP

NO REF Sov: 003

OTHER: 000

Card 2/2

SMIRNOV, Nikolay Alekseyevich, starshiy prepodavatel'; SMOLOV, Vladimir Borisovich, kand.tekhn.nauk, dotsent; FOMICHEV, Vladimir Stepanovich, assistant; CHERNYAVSKIY, Yevgeniy Aleksandrovich, kand.tekhn.nauk

Decoding "number-angle" converter with intermediate transformation.
Izv. vys. ucheb. zav.; elektromekh. 6 no.5:597-604 '63.
(MIRA 16:9)

1. Kafedra vychislitel'noy tekhniki Leningradskogo elektrotekhnicheskogo instituta.

(Electronic computers)

AM4037984

BOOK EXPLOITATION

S/

Smolov, Vladimir Borisovich; Lebedev, Andrey Nikolayevich; Sapozhkov, Konstantin Andreyevich; Dubinin, Yakov Ivanovich; Smirnov, Nikolay Anisimovich; Bodunov, Vasiliy Pavlovich; Ugryumov, YEvgeniy Pavlovich; YAtsenko, Vladimir Pavlovich

Analog computers (Vy*chislitel'nye mashiny* nepreryvnogo deystviya), Moscow, "Vy*sshaya shkola", 1964, 552 p. illus., biblio. 23,000 copies printed.
Textbook for university students.

TOPIC TAGS: analog computer, automation, computer engineering

TABLE OF CONTENTS [abridged]:

Introduction -- 5

Ch. I. Summing calculating assemblies -- 21

Ch. II. Specialized functional transformers -- 52

Ch. III. Universal functional transformers -- 74

Ch. IV. Integrating and differentiating assemblies -- 166

Ch. V. Multiplication and division assemblies -- 261

Ch. VI. Cipher-analog computers (TsAVU) -- 330

Card 1/2

ACCESSION NR: AP4024686

S/0103/64/025/002/0250/0261

AUTHOR: Smirnov, N. A. (Leningrad); Smolov, V. B. (Leningrad)

TITLE: Method of synthesizing integro-differential voltage-code-type coding
converters

SOURCE: Avtomatika i telemekhanika, v. 25, no. 2, 1964, 250-261

TOPIC TAGS: automatic control, coding converter, analog digital converter,
integrodifferential converter, voltage to code converter, digital automatic controlABSTRACT: The authors' method is based on the fact that a "follow-up"-type
coding converter with a reversible counter in the digital-code-selection circuit
may be regarded as a closed-loop dynamic system. The system is treated as
continuous because its quantization intervals are assumed to be small (h-f sync
pulses). The converter transfer function (input voltage to output code) is realized
by introducing dynamic integro-differential sections into the forward and feedback
circuits. Passive RC fourpoles, twopoles, or digital filters or their combinations
in the sampled-data lines of the converter may be used as the above sections in

Card 1/2

L 56510-65 EWT(d)/EED-2/EWP(1) Pg-4/Pg-4/Pk-4/Pl-4 IJP(c) BB/GG

ACCESSION NR: AP5016773

UR/0286/65/000/010/0087/0088 44
681.142.621

43
B

AUTHOR: Grushvitskiy, R. I.; Smirnov, N. A.; Smolov, V. B.; Shmidt, V. K.; Fomichev, V. S.

NAME: A precision voltage-to-code converter. Class 42, No. 171182

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 87-68

TOPIC TAGS: voltage to code converter, computer component, computer technology, voltage divider

ABSTRACT: This Author's Certificate introduces a precision voltage-to-code converter constructed according to the method of sequential comparison with a single standard, subtraction, multiplication by two, and storage of the result. Conversion accuracy is improved by making the storage circuit in the form of two digital counting systems with balancing by digital places. The weight of each least significant digit in the counting systems is greater than the weight of the steps of the preceding least significant digit. The output of one of the counting systems is connected through a pulsed voltage divider to two comparison circuits for voltage

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ACCESSION NR: AP5016773

multiplication. The input voltage is fed to the second input of one comparison circuit while the second input of the other comparison circuit is connected to the output of the second digital counting system. This output is connected to the first input of a third comparison circuit, and to a fourth and fifth comparison circuit through a standard source for subtraction of the reference voltage. The second input of the third comparison circuit is connected to the output of the first counting system. The second input of the fourth and fifth comparison circuits are connected respectively to the input voltage and to the output of the first digital counting system.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Ul'yanova
(Lenina) (Leningrad Electrical Engineering Institute)

SUBMITTED: 16Dec63

ENCL: 01

SUB CODE: DP

NO REF SOV: 000

OTHER: 000

Card 2/3

L 56510-65

ACCESSION NR: AP5016773

ENCLOSURE: 01

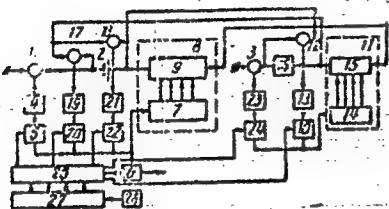


Fig. 1. 1, 3, 12, 7 and 18--comparison circuits; 2--standard source; 4, 13, 19, 21 and 23--amplifiers; 5, 6, 10, 20, 22 and 24--logic circuits; 7 and 14--control circuits for the digital counting systems; 8 and 11--digital counting systems; 9 and 15--code-to-voltage converters; 16--pulsed voltage divider; 25--control unit; 26--pulse generator; 27--synchronization unit

gah
Card

3/3

YATSUNSKAYA, O.I.; CHFRNIKEVICH, L.I.; SMIRNOV, N.A.; GUTNOV, R.B.;
ZUBREV, O.N.

Production of crumbling open-hearth furnace slag. Metallurg
10 no.5:20-21 My '65. (MIRA 18:6)

1. Metallurgicheskiy zavod "Serp i molot".

MOLCHANOV,R.S.; SMIRNOV,N.A.; OLEKHNOVICH,K.A., kandidat tekhnicheskikh nauk, redaktor; KAPLAN,M.Ya., redaktor; PUL'KINA,Ye.A., tekhnicheskiy redaktor

[Innovations in the production of reinforced concrete structures and parts: practice of builders in Leningrad] Novoe v proizvodstve zhelezobetonnykh konstruktsii i detalei; iz opyta stroitel'nykh organizatsii Leningrada. Leningrad, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 81 p.
(MLRA 9:2)
(Reinforced concrete)

SMIRNOV, N.A.

Large brick-blocks for walls. Sbor. nauch. trudov LISI no. 24:46-64
'56. (MIRA 15:3)

1. Zaveduyushchiy kafedrey stroitel'nogo proizvodstva Leningrad-
skogo inzhenerno-stroitel'nogo instituta.
(Brick walls)

MAMONTOV, Igor' Ivanovich.; KISELEV, Mikhail Vital'yevich.; SMIRNOV, N.A.,
inzh., nauchnyy red.; ROTENBERG, A.S., red. izd-va.; PUL'KINA,
Ye.A., tekhn. red.

[Efficient methods for making reinforced concrete construction
elements; practices in Leningrad] Ratsional'nye metody izgotovleniya
zhelezobetonnykh konstruktsii; iz opyta Leningrada. Leningrad, Gos.
izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 81 p.
(MIRA 11:11)

(Precast concrete)

SMIRNOV, Nikolay Aleksandrovich; BUDNIKOV, M.S., prof., doktor tekhn. nauk, retsazent; KOZLOVSKIY, V.M., inzh., nauchnyy red.; KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Technology of building] Tekhnologiya stroitel'nogo proizvodstva. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 376 p. (MIRA 13:3)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Budnikov).
(Construction industry)

SMIRNOV, Nikolay Aleksandrovich; KOMAROVSKIY, M.F., inzh., red.;
FREGER, D.P., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Basic trends of further technical progress in construction in
the 1959-1965 seven-year plan] Osnovnye napravleniya dal'neishego
tekhnicheskogo progressa v stroitel'stve na predstoiaschhee semi-
letie 1959-1965 gg.; stenogramma lektsii. Leningrad, 1960. 24 p.
(MIRA 14:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo
inzhenerno-stroitel'nogo instituta (for Smirnov).
(Construction industry)

GAPEYEV, Vladimir Nikolayevich; SMIRNOV, N.A., red.; FREGER, D.P., red. izdva; BELOGUROVA, I.A., tekhn. red.

[Forms and methods of spreading information on safety measures in construction] Formy i metody propagandy tekhniki bezopasnosti na stroitel'stve. Travmatizm i ego uchet. Pod obshchey red. N.A.Smirnova. Leningrad, Leningradskiy Dom nauchno-tekhn. propagandy, 1960. 42 p. (Bibliotekha stroitelei po tekhnike bezopasnosti no.2)

(MIRA 14:10)

(Building---Safety measures) (Building---Accidents)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V.,
red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn.
red.

[Overall mechanization and automation at reinforced concrete
products plants in Leningrad] Kompleksnaya mekhanizatsiya i
avtomatizatsiya na zavodakh zhelezobetonykh izdelii g. Le-
ningrada. Pod obshchei red. N.A.Smirnova. Leningrad, Lenin-
gr. dom nauchno-tekhn.propagandy, 1961. 20 p. (Bibliotekha
stroitel'stva po mokhanizatsii i avtomatizatsii stroitel'stva,
no.4) (MIRA 15:8)

(Leningrad--Concrete plants)

SVYATSKIY, Pavel Stanislavovich, inzh.; YARMOLOVICH, Konstantin
Yulianovich, inzh.; SMIRNOV, N.A., prof., red.; FOMICHEV,
A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Methods of overall mechanization of the basic types of
finishing work] Puti kompleksnoi mekhanizatsii osnovnykh vidov
otdelochnykh rabot. Pod obshchei red. N.A.Smirnova. Lenin-
grad, Leningr. dom nauchno-tekhn. propagandy, 1961. 20 p.
(Bibliotekha stroitel'ia po mekhanizatsii i avtomatizatsii
stroitel'stva, no.14) (MIRA 15:7)

(Building--Details)

KRYLOV, Nikolay Alekseyevich, kand. tekhn. nauk; SMIRNOV, N.A.,
prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Electronic-acoustical, magnetic, and radio methods for
quality control of materials, elements, and structures]
Elektronno-akusticheskie, radiometricheskie i magnitnye
metody kontrolya kachestva materialov, konstruktsii i
sooruzhenii. Pod obshchei red. N.A.Smirnova. Leningrad,
Leningr. dom nauchno-tekhn. propagandy, 1961. 21 p.
(Bibliotekha stroitel'ia po mekhanizatsii i avtomatiza-
tsii stroitel'stva, no.8) (MIRA 16:5)
(Building--Quality control)

MAMONTOV, Igor' Ivanovich; SMIRNOV, N.A., prof., red.; VASIL'YEV,
Yu.A., red.izd-va; GVIITS, V.L., tekhn. red.

[Over-all mechanization of the production of hollow cylindrical reinforced concrete products; from the experience of "Barrikada" Factory] Kompleksnaia mekhanizatsiia proizvodstva pustotnykh tsilindrcheskikh zhelezobetonykh izdelii; opyt zavoda "Barrikada." Pod obshchey red. N.A. Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 25 p. (Bibliotekha stroitel'stva po mekhanizatsii i avtomatzatsii stroitel'stva, no. 5) (MIRA 15:8)

(Pipe, Concrete)

LAKTYUSHKIN, Aleksey Aleksandrovich; YAKOVLEV, Petr Sergeyevich;
SMIRNOV, N.A., prof., red.; LEVCHENKO, Ya.V., inzh., red.;
FOMICHEV, A.G., red. izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization of sanitary engineering operations]
Kompleksnaia mekhaniizatsiia proizvodstva sanitarno-
tekhnicheskikh rabot. Pod obshchei red. N.A.Smirnova. Le-
ningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 28 p.
(Bibliotechka stroitel'ia po mekhaniizatsii i avtomatizatsii
stroitel'stva, no.12) (MIRA 15:8)
(Sanitary engineering)

NEKRICH, Ye.I.; ARANE, M.Yu.; SMIRNOV, N.A., prof., red.; SHILLING,
V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Overall mechanization and automation in housing construction
combines] Kompleksnaia mekhanizatsiia i avtomatizatsiia na
domostroitel'nykh kombinatakh. Pod obshchei red. N.A.Smirnova.
Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 34 p.
(Bibliotekha stroitelia po mekhanizatsii i avtomatizatsii
stroitel'stva, no.3) (MIRA 15:8)

(Leningrad--Precast concrete) (Apartment houses)
(Automation)

PODEBORSKIY, Leonid Yermolayevich, inzh.; SMIRNOV, N.A., prof., red.;
FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Mechanization of the unloading and transportation of cement]
Mekhanizatsiya razgruzki i transportirovaniia tsementa. Pod
obshchei red. N.A.Smirnova. Leningrad, Leningr. dom nauchno-
tekhn. propagandy, 1961. 36 p. (Bibliotekha stroitelia po
mekhanizatsii i avtomatzatsii stroitel'stva, no.7)

(MIRA 15:8)

(Cement—Transportation) (Loading and unloading)

GODES, Emmanuil Grigor'yevich; SMIRNOV, N.A., red.; SHILLING, V.A.,
red. izd.-va; BELOGUROVA, I.A., tekhn. red.

[Overall mechanization of preparatory operations in the building development of residential blocks] Kompleksnaia mekhanizatsiia rabot nulevogo tsikla pri zastroike zhilykh kvartalov.
Pod obshchei red. N.A. Smirnova. Leningrad, Leningrdom nauchno-tekhn.propagandy, 1961. 37 p. (Bibliotekha stroitelia po kompleksnoi mekhanizatsii i avtomatizatsii stroitel'stva,
no.10) (MIRA 15:8)

(Earthwork) (Foundations)

MAKAROV, Vladimir Ivanovich, kand. tekhn. nauk, dotsent; SMIRNOV,
N.A., prof., red.; FREGER, D.P., red.izd-va; GVIITS, V.L.,
tekhn. red.

[Overall mechanization and automation at concrete and
mortar plants] Kompleksnaia mekhanizatsiia i avtomatizatsiia
na zvodakh betonov i rastvorov. Pod obshchei red. N.A.
Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propagandy,
1961. 43 p. (Bibliotekha stroitel'stva, no.2) (MIRA 15:8)
(Concrete plants) (Mortar) (Automation)

SMIRNOV, Nikolay Aleksandrovich, prof.; LEVCHENKO, Ya.V., inzh.,
red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Basic tendencies in the development of the mechanization
and automation of construction] Osnovnye napravleniya raz-
vitiia mekhanizatsii i avtomatizatsii stroitel'stva. Le-
ningrad, Leningr. dom nauchno-tekhn.propagandy, 1961. 46 p.
(MIRA 15:8)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Lenin-
gradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
(Construction equipment) (Automation)

SMIRNOV, N.A., dots., otv. red.

[The technology of precast structural elements and of building]
Tekhnologija sbornykh stroitel'nykh konstruktsii i stroitel'-
nogo proizvodstva; doklady na XIX nauchnoi konferentsii. Lenin-
grad, 1961. 54 p.
(MIRA 15:6)

1. Leningrad. Inzhenerno-stroitel'nyy institut. 2. Zaveduyushchiy
kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-
stroitel'nogo instituta(for Smirnov).
(Precast concrete construction)

SMIRNOV, N.A., prof.

[Drawing; reports of the 20th scientific conference]Grafika;
doklady XX nauchnoi konferentsii. Leningrad, 1962. 29 p.
(MIRA 16:1)
1. Leningrad. Inzhenerno-stroitel'nyy institut. Nauchnaya kon-
ferentsiya.
(Mechanical drawing)

TUZOV, Mikhail Sergeyevich, inzh.; SMIRNOV, N.A., prof., red.;
FREGER, D.P., red. izd-va; GVRITS, V.L., tekhn. red.

[Safety engineering in carrying out preparatory operations] Tekhnika bezopasnosti pri proizvodstve rabot nulevogo tsikla. Leningrad, 1962. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Bibliotekha stroitel'stva po tekhnike bezopasnosti v stroitel'stve, no.6)
(MIRA 16:8)

(Building--Safety measures)

MIKHAI'L CHENKO, Mikhail Grigor'yevich, inzh.; OKUNEV, Nikolay Aleksandrovich, inzh.; KHUTORYAN, Naum Benitsianovich, inzh.; SMIRNOV, N.A., red.; FOMICHEV, A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Comprehensive mechanization and automation of plants manufacturing building materials of rock, gravel, and sand] Kompleksnaia mekhanizatsiia i avtomatizatsiia na predpriyatiakh nerudnykh stroitel'nykh materialov; stenogramma lektsii. Leningrad, 1962.
(MIRA 15:3)

30 p.

(Automation) (Building materials)

BAL'MAKOVA, Irina Karlovna, inzh.; SMIRNOV, N.A., red.; GRIGOR'YEVA,
I.S., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Organization of transportation in the operational production
lines of housing construction combines]Organizatsiia raboty
transporta na tekhnologicheskikh liniakh domostroitel'nykh
kombinatov. Leningrad, 1962. 37 p. (Leningradskii dom nauchno-
tekhnicheskoi propagandy. Obmen peredovym opyтом. Seriia:
Stroitel'naya promyshlennost', no.8) (MIRA 15:9)
(Building) (Transportation)

AISTOV, N.N., prof., doktor tekhn. nauk; VASIL'YEV, B.D., prof., doktor tekhn. nauk; IVANOV, V.F., prof., doktor tekhn. nauk; SAKHNOVSKIY, K.V., prof., doktor tekhn. nauk; SHIRNOV, N.A., prof.; ORLOV, A.I., dots., kand. tekhn. nauk; SHIFRIN, S.M., prof., doktor tekhn. nauk; Prinimali uchastiye: AKIMOVA, L.D., kand. tekhn. nauk, dots.; SPIRIDONOVA, O.M., kand. tekhn. nauk, dots.; MAKUKHIN, V.L., nauchnyy red.; STAROVOYTOV, I.F., inzh., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[The history of building practices] Istoryia stroitel'noi tekhniki. [By] N.N.Aistov i dr. Pod obshchei red. V.F.Ivanova. Leningrad, Gosstroizdat, 1962. 560 p. (MIRA 15:12)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR
(for Vasil'yev, Sakhnovskiy). (Building)

CAPEYEV, Vladimir Nikolayevich, inzh.; SMIRNOV, N.A., prof., red.;
PAPIYEV, V.R., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Problems of accident prevention in winter construction and
assembly] Voprosy tekhniki bezopasnosti pri proizvodstve
stroitel'no-montazhnykh rabot v zimnee vremia.
Pod obshchei red. N.A.Smirnova. Leningrad, Leningr. dom
nauchno-tekhn. propagandy, 1962. 14 p. (Bibliotechka stroi-
telia po tekhnike bezopasnosti, no.8) (MIRA 16:3)
(Building—Cold weather conditions)

NIKITIN, Gennadiy Mikhaylovich, kand. tekhn. nauk; SMIRNOV, N.A.,
prof., red.; FREGER, D.P., red.izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Safety measures in operating hoisting and conveying machines
in construction] Tekhnika bezopasnosti pri ekspluatatsii pod"-
emno-transportnykh mashin v stroitel'stve. Pod obshchei red.
N.A.Smirnova. Leningrad, Leningr. dom nauchno-tekhn. propa-
gandy, 1962. 33 p. (Bibliotekha stroitelia po tekhnike bez-
opasnosti, no.5) (MIRA 16:12)

(Hoisting machinery—Safety measures)
(Conveying machinery—Safety measures)

SMIRNOV, Nikolay Aleksandrovich, prof.; KRYLOV, N.A., red.; FREGER,
D.P., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Objectives and prospects of the development of the construction industry in the U.S.S.R.] Zadachi i perspektivy razvitiia stroitel'noi industrii SSSR; stenogramma lektsii. Leningrad, 1963. 17 p.
(Construction industry)

SMIRNOV, Nikolay Aleksandrovich, prof.; PANIVAN, P.S., red.;
GRIGOR'YEVA, I.S., red.izd-va; BELOGUROVA, I.A., tekhn.
red.

[Safety engineering in working at construction sites]
Tekhnika bezopasnosti pri proizvodstve rabot na stroitel'-
noi ploschadke. Leningrad, Leningr. dom nauchno-tekhn.
propagandy. 1963. 52 p. (Bibliotekha stroitelia po
tekhnike bezopasnosti, no.9) (MIRA 16:6)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Lenin-
gradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
(Building--Safety measures)

SMIRNOV, N.A., prof.; DAVIDSON, M.G.; PORADNYA, A.I.; STABNIKOV,
V.N.; VEBER, M.A.; ZHADOVICH, V.K.; KRUPSKIY, A.S. [deceased];
MELAMEDOV, N.K.; SERGEYEV, V.V.: Prinimali uchastiye:
AMMOSOV, N.G., inzh.; AKIMOVA, L.D., kand. tekhn. nauk,
dots.; FILIPPOV, N.A., inzh., nauchn. red.; SMIRNOV, N.A.,
prof., red.; DNEPROVA, N.N., red.izd-va; PUL'KINA, Ye.A.,
tekhn. red.

[Technology of building] Tekhnologiya stroitel'nogo proiz-
vodstva. [By] N.A. Smirnov i dr. Leningrad, Gosstroizdat,
(MIRA 17:2)
1963. 435 p.

BLOKHIN, Boris Nikolayevich; SMIRNOV, N.A., prof., retsenzent;
SPIRIDONOVA, O.M., dots., kand. tekhn.nauk, retsenzent;
CHERNOV, T.P., prof., retsenzent; PREDTECHENSKIY, V.M.,
prof., doktor tekhn. nauk, retsenzent; RUFFEL', N.A., dots.,
retsenzent; ZAYTSEV, A.G., prof., retsenzent; DROZDOV, A.G., inzh.;
GALITSKIY, V.N., inzh., retsenzent; ZHELUDKOV, V.I., inzh.,
nauchn. red.; LYTKINA, L.S., red.; DASIMOV, D.Ya., tekhn. red.

[Technology of the construction industry] Tekhnologija stroitel'nogo proizvodstva. Moskva, Gosstroizdat, 1963. 263 p.
(MIRA 17:1)

1. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Smirnov).
2. Kafedra stroitel'nogo proizvodstva Leningradskogo inzhenerno-stroitel'nogo instituta (for Spiridonova). 3. Zaveduyushchiy kafedroy stroitel'nogo proizvodstva Moskovskogo inzhenerno-stroitel'nogo instituta imeni V.V.Kuybysheva (for Chernov). 4. Moskovskiy inzhenerno-stroitel'nyy institut imeni V.V.Kuybysheva (for Fredtechenskiy, Ruffel'). 5. Zaveduyushchiy kafedroy stroitel'nykh materialov Moskovskogo arkhitekturnogo instituta (for Zaytsev). 6. Glavnyy inzhener Moskovskogo arkhitekturno-planirovochnogo upravleniya (for Drozgov). 7. Direktor Moskovskogo domostroitel'nogo kombinata No.1 (for Galitskiy).

BRONNIKOV, Petr Ivanovich; SMIRNOV, N.A., prof., red.

[Experimental construction of residential and public buildings made from three-dimensional elements] Eksperimental'noe stroitel'stvo zhilykh i grazhdanskikh zdaniy iz ob'emnykh elementov. Leningrad, 1964. 25 p. (Leningradskii dom nauchno-tehnicheskoi propagandy. Obmen peredovym opyтом. Seriia: Stroitel'nye materialy i konstruktsii, no.1) (MIRA 17:7)

BAD'IN, Gennadiy Mikhaylovich; SMIKHOV, N.A., red.

[Equipment and measuring instruments for the dynamic testing of piling; work experience of the Leningrad Institute of Construction Engineers in cooperation with Trust No.101 of the Main Administration for Construction of Leningrad] Oborudovanie i izmeritel'naja apparatura dlia dinamicheskikh ispytanii svai; iz opyta raboty LISI v sodelzhestve s trestom №.101 Glavleningradstroia. Leningrad, 1964. 20 p.
(MIRA 17:12)

VERIZNIKOV, Sergey Mikhaylovich, kand. tekhn. nauk; SMIRNOV,
N.A., prof., nauchn. red.; ROTENBERG, A.S., red.

[Housing construction enterprises; their present state
and the prospects for their development] Domostroitel'-
nye predpriatiia; sostoianie i perspektivy razvitiia.
Leningrad. Stroizdat, 1964. 280 p. (MIRA 18:1)

SMIRNOV. N. A.

Eucommia

Growing eucommia at the Novorossiysk forestry station. Leskhоз. 5 no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

1. SMIRNOV, N. A.
2. USSR (600)
4. Community Forests
7. Attention to collective farm wood lots.
Les khoz. 5. No. 10. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SMIRNOV, N. A.

"The Growth and Development of the Seedlings of Scrub Wood Varieties in Relation to the Action of Lower Temperature on the Seeds." Cand Agr Sci, Voronezh Forestry Inst, Min Higher Education USSR, Voronezh, 1955. (KL, No 12, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

USSR / Forestry. Forest Cultures.

K

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82229

Author : Smirnov, N. A.

Inst : Not given

Title : An Experiment in Deep Planting Poplar Cuttings

Orig Pub : Lesn. zh-vo, 1958, No 3, 83-84

Abstract : No abstract given

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SMIRNOV, N. A.

USSR/Agriculture Fertilizer

Card : 1/1

Authors : Smirnov, N. A.

Title : Fertilizing vegetable cultures with carbon dioxide in greenhouses
and hotbeds

Periodical : Priroda, 43/7, 100 - 102, July 1954

Abstract : The effects of introducing CO₂ into the soil are cited with figures showing the percentages of increase in production for various vegetables. The author finds that CO₂ offsets the lack of light and heat. Directions are given as to the preparation of the CO₂ gas and its application. Table; illustrations.

Institution :

Submitted :

SMIRNOV, N.A.

Experiment in winter raising of tomatoes. Agrobiologija no.2:
104-106 Mr-Ap '57. (MLRA 10:5)

1.Chelyabinskiy teplichno-parnikovyy kombinat.
(Tomatoes)

SMIRNOV, N.A.

Vegetable gardening in humid subtropics. Priroda 46 no.3:95-98
Mr '57. (MLRA 10:3)

1. Tepichno-parnikovyy kombinat "Izmaylovo" (Moskva).
(Vegetable gardening)

AUTHOR: Smirnov, N.A. SOV-26-58-8-24/51

TITLE: The Culture of Early Vegetables (Kul'tura rannikh ovoshchey)

PERIODICAL: Priroda, 1958, Nr 8, pp 97-100 (USSR)

ABSTRACT: The fruit and vegetable combine "Marfino" grows vegetables on a 42,000 m³ farm. Heated hotbeds occupy an area of 5,000 m². The yearly production is 20,000 centners. Vegetables are preserved mainly in ice storehouses. The combine delivers greenhouse and hotbed products, mainly cucumbers, to Moscow. Research work is also conducted. In the culture of cucumbers, 18 different hybrids have been raised. The mushroom crop is harvested during a period when other vegetables are scarce and the space in the greenhouses cannot fully used. Special attention is paid to fertilizers. The magnesium content in the soil is considered to be too low. Fertilization with boron should also be increased. It has been shown by experience that the optimum of the temperature during winter is dependent on the available light. It is higher during sunny days than during cloudy weather.
There are 3 photos.

Card 1/2

SMIRNOV, Nikolay Alekseyevich; LEONOV, S., red.; SHLYK, M., tekhn.
red.

[Garden under glass; practices in growing vegetables in green-
houses] Ogorod pod steklom; opyt vyrashchivaniia ovoshchей v
teplitsakh. Moskva, Mosk. rabochii, 1963. 159 p.
(MIRA 16:5)

(Vegetable gardening) (Greenhouse management)

SMIRNOV, N.A.

Let's introduce a practical trend into the school courses of biology.
Biol. v shkole no.4:46-47 Jl-Ag '63. (MIRA 16:9)

1. Turovskaya vos'miletnyaya shkola, Ryazhskiy rayon Ryazanskoy
oblasti. (Biology--Study and teaching)

AUTHORS:

Zlatoverkhovnikov, L. F., Candidate of SOV/154-58-4-14/18
Technical Sciences, Smirnov, N. A., Candidate of Technical
Sciences

TITLE:

Records of the General Deformations of Hydraulic Port
Installations in Sea Ports (Nablyudeniya za obshchimi
deformatsiyami gidrotehnicheskikh **sooruzheniy** v morskikh
portakh)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodesiya i aero-
fotos"yemka", 1958, Nr 4, pp 137 - 142 (USSR)

ABSTRACT:

Port installation structures begin to deform even during
construction. Hence it is necessary to start systematic
surveying observations during this period. As early
as 1947 the Soyuzmorproekt of the Ministry of Merchant
Marine of the USSR drafted the first regulations
and instructions concerning surveying records, employing
the experience collected in the Chernomorproekt. In
1949 the first surveying observations of the hydraulic
port installations of Leningrad, Tuapse (and of other
ports) were started. Later on, such record work was

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Records of the General Deformations of Hydraulic Port
Installations in Sea Ports SOV/154-58-4-14/18

extended to the hydraulic port installations of the ports of Poti, Novorossiysk, Batum, Taganrog, Zhdanov, and Odessa. In 1951 the instructions for the planned surveying records of the settling of hydraulic port installations were published. The instruction was later revised on the basis of the experience collected. The difficulties encountered in direct measurements require a thorough study of the application of optical measuring methods. The Odessa Research Station of the TsNII has already started an investigation of the general movements of the pier Nr 10 in the port of Odessa. The inclinometer was designed by Engineer G.D.Shtromberg. The surveying observations showed that the recording of the general movements of port installations must be started immediately after construction has been completed. As the further recording of the movements falls to the competence of the respective port authorities, but is still carried out under the methodical supervision of the Research Station of the TsNII, new economical measuring instruments will have to be constructed. These

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Records of the General Deformations of Hydraulic Port
Installations in Sea Ports SOV/154-58-4-14/18

instruments should simplify surveying work but nevertheless maintain or even increase the accuracy of the measurements. Such surveying records of the deformations of hydraulic port installations under natural conditions are also of great practical importance in the efficient operation of sea ports. They may lead to a perfection of planning methods of hydraulic port installation constructions.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut Ministerstva Morskogo Flota SSSR (Central Scientific Research Institute of the USSR Ministry of Merchant Marine)

Card 3/4

SMIRNOV, Nikolay Andreyevich, kand. tekhn. nauk; ZLATOVERKHOVNIKOV,
Leonid Fedorovich, kand. tekhn. nauk; SKOBELING, L.V., red.;
KLAPTSOVA, T.F., tekhn. red.

[Improving the technical operation of hydraulic structures in
harbors] Uluchshenie tekhnicheskoi ekspluatatsii portovykh
gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo "Morskoi trans-
sport," 1962. 90 p. (MIRA 15:9)

(Hydraulic structure--Maintenance and repair)
(Marine fouling)